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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,455	09/15/2003	David Abu Ghazaleh	RSW920030055US1	2196
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C/O SYNNEST	TVEDT & LECHNÉR I	CHAUHAN, LOREN B		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

·_4	Application No.	Applicant(s)				
	10/663,455	GHAZALEH ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Loren Chauhan	2193				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim viil apply and will expire SIX (6) MONTHS from cause the application to become AB ANDONE	J. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 27 Ju	ılv 2007.					
	action is non-final.					
·= ·-	,—					
<i>,</i> —	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	•					
4)⊠ Claim(s) <u>1-35</u> is/are pending in the application.						
, , , , , , , , , , , , , , , , , , , ,	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	• • •					
· <u> </u>						
	6)⊠ Claim(s) <u>1-35</u> is/are rejected.					
	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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AM . A						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of References Cited (P10-692) Notice of Draftsperson's Patent Drawing Review (PT0-948)	4) The Mew Summary Paper No(s)/Mail D					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal F	atent Application				
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

1. Claims 1-35 are pending for examination.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

- 3. Claims 22-28 and 30-35 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.
 - a. As to claims 22-28 and 30-35, the claims are non-statutory because the claims are directed to nothing more than a collection of data, non-functional descriptive material.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 22, 26-27 and 35 are rejected under 35 U.S.C. 102(b) as being anticipated by Bailey (US Pat. No. 6,701,513).

6. As per claim 22, Bailey teaches the invention substantially as claimed including a computer readable product embodied on computer readable media readable by a computing device for enabling a user to generate a graphical representation of object oriented programming logic (Abstract lines 10-13; col. 3, lines 24-27), the product comprising:

a graphical user interface in which a user is presented with a plurality of different symbols for use in developing a graphical representation of object oriented programming logic, each different symbol representing a different type of object in object oriented programming (col. 7, lines 57-61);

computer executable instructions that enable the user to drag and drop symbols into a workspace (col. 12, lines 35-37) and label the symbol with a label descriptive of the object's features (col. 9, lines 50-52); and

computer executable instructions that enable the user to draw lines between objects in the workspace (col. 4, lines 35-40; col. 9, lines 60-62).

- 7. As per claim 26, Bailey teaches the method, wherein the labels are text labels (col. 10, lines 53-55).
- 8. As per claim 27, bailey teaches the method, further comprising:

 computer readable instructions that enable the user to prepare a plurality of the diagrams corresponding to separate parts of an overall application and further

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comprising computer readable instructions for enabling the user to specify relationships between individual ones of the diagrams (col. 8, lines 14-18; col. 9, lines 53-57).

9. As per claim 35, Bailey teaches the method, further comprising:

computer executable instructions that enable the user to insert text associated with symbols in the workspace that can be made to appear in the workspace responsive to an action taken by a user (col. 10, lines 9-12, 53-55, 58-59, 64-65; col. 34, lines 16-20).

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claims 24, 28 and 31-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bailey (US Pat. No. 6,701,513) in view of Milakovich (US Pat. No. 6,029,181).

- 12. As per claim 24, Bailey does not explicitly teach, fifth computer executable instructions that enable the user to denote one and only one object in the workspace as a main object.
- 13. Milakovich teaches that enable the user to denote one object in the workspace as a main object (col. 3, lines 39-41; col. 16, lines 36-39).
- 14. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of Bailey and Milakovich because Milakovich's teachings of denoting one object as a main object would help user to easily understand the logical flow of execution control of the application program that is being developed.
- 15. As per claim 28, Bailey does not explicitly teach, wherein the sixth computer readable instructions comprise instructions that enable the user to including references associated with symbols in one diagram identifying at least one other diagram within which the object represented by that symbol also appears.
- 16. Milakovich teaches the method that enable the user to including references associated with symbols in one diagram identifying at least one other diagram within which the object represented by that symbol also appears (col. 3, lines 39-40; col. 16, lines 36-39).

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17. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of Bailey and Milakovich because Milakovich's teachings of referencing symbols in one diagram with other diagram would help user to easily understand the logical flow of execution control of the application program that is being developed.

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- 18. As per claim 29, Milakovich teaches the method, wherein the sixth computer readable instructions comprise instructions that enable the user to specify in a first one of the diagrams the nature of the relationship of the representation of the object in the first diagram relative to the representation of the object in a second diagram (col. 3, lines 38-41), wherein the relationship between the object as represented in the first and second diagrams is selected from the group comprising: (1) the second diagram discloses additional details about the object in the first diagram; (2) the second diagram shows the object in a more abstract context than the first diagram (col. 16, lines 36-39); and (3) the object is the main object of the second diagram (col. 3, liens 38-41).
- 19. As per claim 31, Bailey does not explicitly teach the method, wherein the symbols representing different object types include: a first symbol for representing objects that are application type objects; a second symbol for representing objects that are window type objects; a third symbol for representing objects that are class type objects; a fourth symbol for representing objects that are event script type objects; and

a fifth symbol for representing objects that are method type objects; and wherein the additional symbols representing additional program elements include: a sixth symbol for representing data transfers; a seventh symbol for representing databases; an eighth symbol for representing remote links; and a ninth symbol for representing inheritance.

- 20. Bailey does teach plurality of objects or icons representing text boxes, radio buttons, scroll bars, menu bars and so on (col. 2, lines 3-9; col. 7, lines 57-61; col. 8, lines 8-11, 15-18, 24-37). Each icon represents a corresponding object class that is available for use by developer.
- 21. It would have been obvious to one of ordinary skill in the art at the time of the invention was to add more graphical icons representing other programming objects which will improve the functionality of the system.
- 22. As per claim 32, Bailey teaches the method, seventh computer executable instructions that restrict the user to using the sixth, eighth, and ninth symbols to connect two other object symbols (col. 4, lines 35-40).
- 23. Claims 1-21, 23 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bailey (US Pat. No. 6,701,513) in view of Milakovich (US Pat. No.

6,029,181) and further in view of Visio 2000 Standard Edition User Guide (Published by Visio International 1999 hereinafter Visio).

- 24. As per claim 1, Bailey teaches the invention substantially as claimed including a method for graphically representing object oriented programming logic (Abstract lines 10-13), the method comprising the steps of:
- (1) providing a plurality of different symbols for use in a diagram of object oriented programming logic, each different symbol representing a different type of object in object oriented programming (402, 402a fig. 4A; col. 7, lines 57-61; Col. 8, lines 24-26);
- (3) labeling the symbol with a label descriptive of the object's features so that it is distinguishable from other symbols of the same object type (col. 10, lines 53-55, 58-59, 64-65; col. 11, lines 35-38);
- (4) for each object assigned to or defined within the main object, drawing a symbol corresponding to that object and labeling the symbol with a label descriptive of the object's features (col. 10, lines 53-55, 58-59, 64-65; col. 11, lines 35-38); and
- (5) drawing a line between each object drawn in step (4) and another object in the graphical representation to which it is assigned or within which it is defined (col. 4, lines 23-26).

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However, Bailey does not explicitly teach selecting an object as a main object of the logic to be represented in the diagram and drawing a symbol corresponding to the main object.

Milakovich teaches selecting an object as a main object of the logic to be represented in the diagram (col. 3, lines 39-40; col. 16, lines 36-39) but fails to teach drawing a symbol corresponding to the main object.

Visio teaches drawing a symbol corresponding to an object (pages 15-17).

- 25. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of Bailey, Milakovich and Visio because Milakovich and Visio's teaching of main object with symbol would help user to easily understand programming logic that was described in detail according to specification of the system without creating any confusion.
- 26. As per claim 2, Bailey teaches the method, further comprising the step of:
- (6) providing a plurality of additional different symbols for use in the diagram, each of the additional different symbols representing a different an object oriented programming element other than an object (col. 4, lines 23-26).

- 27. As per claim 3, Milakovich teaches the method, further comprising the step of: graphically denoting the main object in the diagram (col. 3, lines 39-40; col. 16, lines 36-39). But fails to teach drawing another symbol around the symbol for the main object.
- 28. Visio teaches drawing another symbol around the symbol for the main object (pages 15-17).
- 29. As per claim 4, Visio teaches the method, wherein step (7) comprises drawing a circle completely enclosing the symbol of the main object (page 18, see shape-to-shape connections).
- 30. As per claim 5, Bailey teaches the method, wherein the labels comprise text (col. 10, lines 53-55).
- 31. As per claim 6, Bailey teaches the method, wherein step (5) comprises drawing the line between the object defined in step (4) and another object it is most directly assigned to or is most directly defined within (col. 4, lines 36-40).

32. As per claim 7, Visio teaches the method is used to document software (page 6-7).

- 33. As per claim 8, Visio teaches the method is used to prepare a program specification (pages 6-7).
- 34. As per claim 9, Bailey teaches the method, further comprising the step of: (8) repeating steps (1) (5) to prepare a plurality of separate diagrams corresponding to separate parts of an overall application (col. 8, lines 14-18).
- 35. However, does not explicitly teach a first object is the main object appearing in at least a first one of the diagrams and is not a main object appearing in at least a second one of the diagrams.
- 36. Milakovich teaches a first object is the main object appearing in at least one of the diagrams and is not a main object appearing in at least a second one of the diagrams (col. 3, lines 38-41).
- 37. As per claim 10, Milakovich teaches the method, wherein a diagram does not disclose objects assigned to and defined within an object and the diagram does disclose objects assigned to and defined within the object (col. 3, lines 38-41).

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38. As per claim 11, Bailey teaches the method, an application-level representation disclosing an overall software system (col. 8, lines 14-18).

- 39. As per claim 12, Bailey teaches the method, wherein the label identifies as disclosing further details of the object (col. 9, lines 50-53).
- 40. As per claim 13, Bailey does not explicitly teach wherein the symbols representing different object types include: a symbol for representing objects that are application type objects; a symbol for representing objects that are window type objects; a symbol for representing objects that are class type objects; a symbol for representing objects that are event script type objects; and a symbol for representing objects that are method type objects.
- 41. Bailey does teach plurality of objects or icons representing text boxes, radio buttons, scroll bars, menu bars and so on (col. 2, lines 3-9; col. 7, lines 57-61; col. 8, lines 8-11, 15-18, 24-37). Each icon represents a corresponding object class that is available for use by developer.
- 42. It would have been obvious to one of ordinary skill in the art at the time of the invention was to add more graphical icons representing other programming objects which will improve the functionality of the system.

43. As per claim 14, it is similar to claim 13 with added symbols; therefore, it is rejected for the same rationale as claim 13.

- 44. As per claim 15, Bailey teaches the method, wherein the sixth, eighth, and ninth symbols are drawn connecting two other object symbols (col. 4, lines 35-40).
- 45. As per claim 16, it is similar to claim 13 with added symbols; therefore it is rejected for the same rationale as claim 13.
- 46. As per claim 17, Bailey teaches the method, further comprising the step of: providing in a separate description of the logic to be performed responsive to an event script (col. 10, lines 9-12).
- 47. As per claim 18, Bailey teaches the method, wherein the symbol representing event script type objects is drawn connected to another object that directly executes the event script corresponding to the event script symbol (col. 9, lines 60-62).

- 48. As per claim 19, Bailey teaches the method, wherein the symbol representing method type objects is drawn connected to the main object of the diagram (col. 4, lines 35-40) and represents that the object is available within that main object and does not represent that the main object invokes it (col. 7, lines 57-60; col. 8, lines 14-18).
- 49. As per claim 20, Bailey teaches the method, wherein the method is implemented via a computer program, and wherein step (1) comprises providing a graphical user interface in which a user is presented with a pallet containing the symbols (col. 7, lines 57-61) and wherein steps (3) and (4) comprise dragging and dropping the symbols from the pallet into a work area (col. 12, lines 35-37).
- 50. As per claim 21, Bailey teaches the method, wherein the method is implemented via a computer program, and wherein step (1) comprises providing a graphical user interface in which a user is presented with a pallet containing the symbols (col. 7, lines 57-61) and wherein steps (3) and (4) comprise dragging and dropping the symbols from the pallet into a work area (col. 12, lines 35-37), and wherein the labels comprise text (col. 10, lines 53-55) and further wherein at least some of the text labels can be made to appear in the graphical representation via an action taken by a user (col. 10, lines 63-65).

- As per claim 23, Bailey does not explicitly teach the method, further comprising: fourth computer executable instructions that enable the user to graphically denote the main object in the diagram by drawing another symbol around the symbol for the main object.
- 52. Milakovich teaches the user to denote the main object in the diagram (col. 3, lines 39-41). But fails to teach drawing another symbol around the symbol for the main object.
- 53. Visio teaches drawing another symbol around the symbol for the object (pages 15-17).
- 54. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of Bailey, Milakovich and Visio because Milakovich and Visio's teaching of main object with symbol would help user to easily understand programming logic that was described in detail according to specification of the system without creating any confusion.
- 55. As per claim 25, Bailey and Milakovich both do not explicitly teach wherein the fourth computer executable instructions comprise instructions enabling the user to enclose the one and only one object within a circle.

Visio teaches the method that enables the user to enclose the one object within a circle (page 18, see shape-to-shape connections).

57. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of Bailey, Milakovich and Visio because Milakovich and Visio's teaching of drawing one object within a circle would help user to easily understand programming logic that was described in detail according to specification of the system without creating any confusion.

- 58. Claims 30 and 33-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bailey (US Pat. No. 6,701,513).
- 59. As per claim 30, Bailey does not explicitly teach wherein the symbols representing different object types include: a symbol for representing objects that are application type objects; a symbol for representing objects that are window type objects; a symbol for representing objects that are class type objects; a symbol for representing objects that are event script type objects; and a symbol for representing objects that are method type objects.
- 60. Bailey does teach plurality of objects or icons representing text boxes, radio buttons, scroll bars, menu bars and so on (col. 2, lines 3-9; col. 7, lines 57-61; col. 8,

lines 8-11, 15-18, 24-37). Each icon represents a corresponding object class that is available for use by developer.

- 61. It would have been obvious to one of ordinary skill in the art at the time of the invention was to add more graphical icons representing other programming objects which will improve the functionality of the system.
- As per claim 33, it is similar to claim 30 with added symbols; therefore, it is 62. rejected for the same rationale as claim 30.
- 63. As per claim 34, Bailey teaches the method, further comprising:

computer executable instructions that enable the user to providing in a separate description of the logic to be performed responsive to an event script (col. 9, lines 9-12).

Response to Arguments

Applicant's arguments with respect to claims 1-35 have been considered but are 64. moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Loren Chauhan whose telephone number is 571-270-1554. The examiner can normally be reached on Mon.-Thr. 9:30-5:00 (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Loren Chauhan Examiner Art Unit 2193

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